

Patent Abstracts of Japan

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APPLICANT : ASAHI CHEM IND CO LTD;

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TITLE : IMPROVEMENT ON METHOD OF BIOLOGICAL DENITRIFICATION

ABSTRACT : PURPOSE: To provide an improved method of biological denitrification, in which denitrifying bacteria are attached to resin carrier together with iron flocks, and thus biological film having a high attachment force is formed, whereby NO_2^- and/or NO_3^- contained in waste water can be biologically removed by said biological be

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AN - 77-88868Y ç25!
PR - JP760046604 760426
TI - Denitrification treatment of waste water - using resin
to which is adhered denitrification bacteria and iron
flocks
IW - DENITRIFICATION TREAT WASTE WATER RESIN ADHERE
DENITRIFICATION BACTERIA IRON FLOCK
PA - (ASAHI) ASAHI CHEM IND CO LTD
PN - JP52130150 A 771101 DW7750 000pp
ORD - 1977-11-01
IC - C02C1/02
FS - CPI
DC - A97 D15
AB - J52130150 In converting biologically NO2- and/or NO3-
contained in a water, e.g. a sewage, food industry
waste water, a coke-oven waste water, a fibrous plant
waste water, a chemical plant waste water, etc., into
N2 under an anaerobic state by use of denitrification
bacteria, e.g. *Pseudomonas denitrificans* and *Micrococcus*
denitrificans, etc., the improvement comprises
contacting the water with a resin to which are adhered
the denitrification bacteria and Fe flocks.
- The resin is PVC, polystyrene, polyethylene,
polyurethane, ABS resin, etc. The water is purified at
very high denitrification rate even if its nitrogen
concn. is very high or the make up of the water varies.
- A bacteria membrane having excellent adherability on
the resin carrier is obtd. by using it in a foamed state
due to its surface unevenness and surface area
efficiency.

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